

Title (en)  
POLY(2,5-THIOPHENEDIYL)-ARSENIC PENTAFLUORIDE COMPLEXES

Publication  
**EP 0065251 B1 19841205 (DE)**

Application  
**EP 82104032 A 19820510**

Priority  
DE 3119593 A 19810516

Abstract (en)  
[origin: US4490509A] Reaction products of poly-(2,5-thiophendiy) and arsenic pentafluoride. The black complexes are insoluble solids. Due to their high electric conductivity they can be used as conductors of electric currents. Suitable applications are, e.g., sheet-form conductors for heating systems or electrodes for electrical batteries.

IPC 1-7  
**H01B 1/12; C08G 61/12**

IPC 8 full level  
**C07F 9/80** (2006.01); **C08G 61/12** (2006.01); **H01B 1/12** (2006.01)

CPC (source: EP US)  
**C08G 61/126** (2013.01 - EP US); **H01B 1/127** (2013.01 - EP US)

Citation (examination)  

- JOURNAL OF POLYMER SCIENCE, Band 18, Nr. 1, Januar 1980, Seiten 9-12, John Wiley & Sons, Inc., New York, USA "Preparation of thermostable and electric-conducting poly (2,5-thienylene)"
- DIE MAKROMOLEKULARE CHEMIE - RAPID COMMUNICATIONS, Band 2, 1981, Seiten 551-555, Heidelberg, DE. G. KOSSMEHL et al.: "Electrical conductivity of poly (2,5-thiophenediy) -AsF<sub>5</sub>-complexes"

Cited by  
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Designated contracting state (EPC)  
CH DE FR GB IT LI NL

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**EP 82104032 A 19820510**; DE 3119593 A 19810516; DE 3261436 T 19820510; JP 7850082 A 19820512; US 39616282 A 19820708